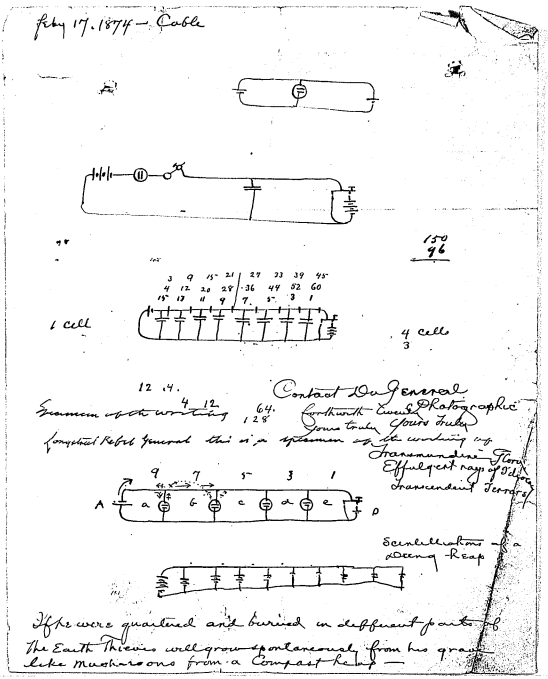
Notebook, Volume 9

This volume covers the period August-December 1875. The notes and drawings are by Edison and Charles Batchelor, and the names of James Adams and Edward H. Johnson occasionally appear as witnesses. Most of the material relates to acoustic telegraphy. There are also notes and drawings of etheric force experiments and a drawing of a pen for an autographic telegraph. The volume consists of 23 numbered, unbound leaves, many of which appear to have been removed from a scrapbook. Some of the pages in Scrapbook Fragment, Cat. 30,100 (Miscellaneous Shop and Laboratory Notebooks) were probably also removed from the same scrapbook.

Missing pages, found in facsimile in the Telephone Interferences: 6-10, 17.

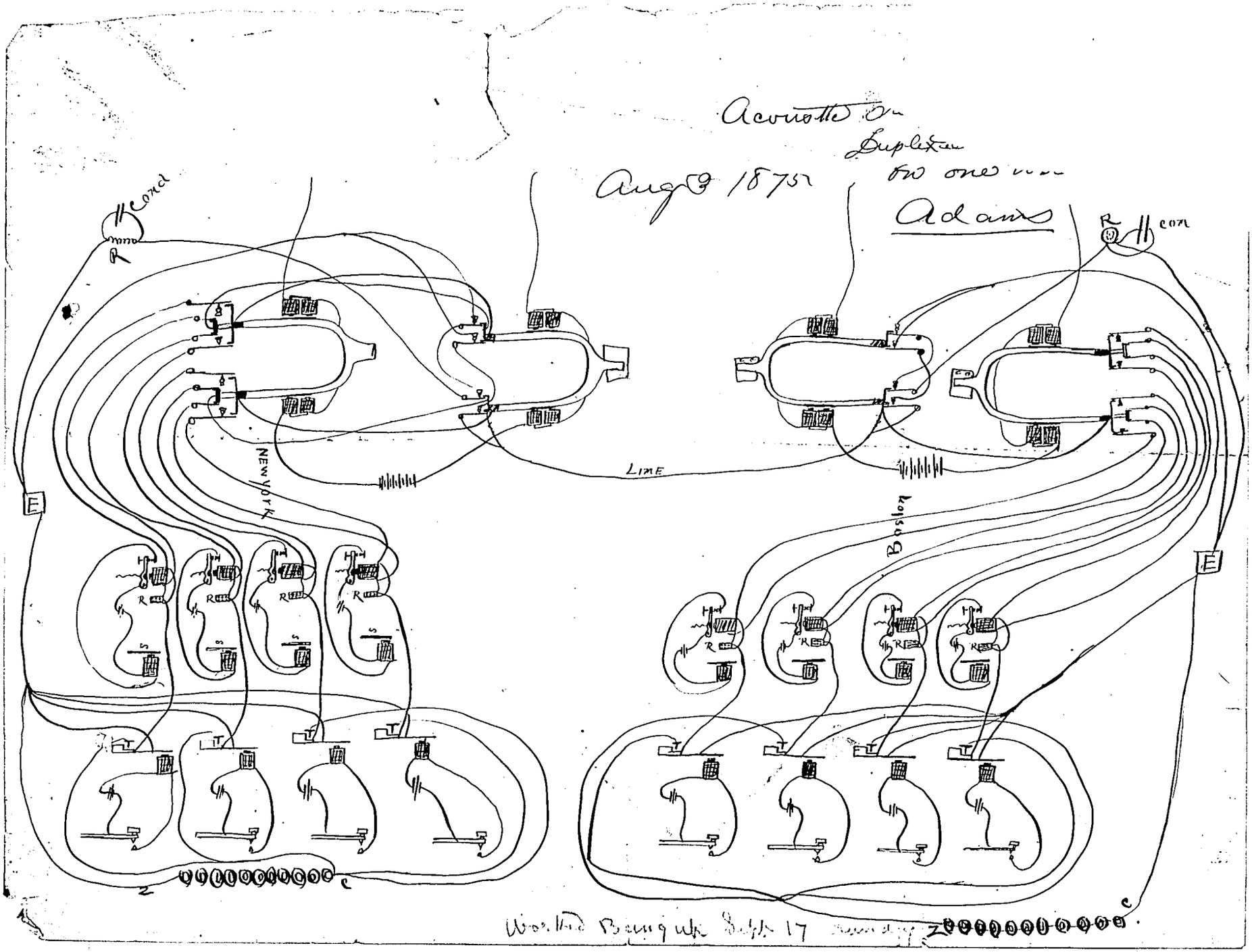
Missing pages: 1-2, 4, 14-16.

THE REDUCTION RATIO FOR THIS DOCUMENT IS 16:1

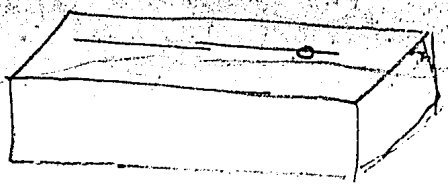


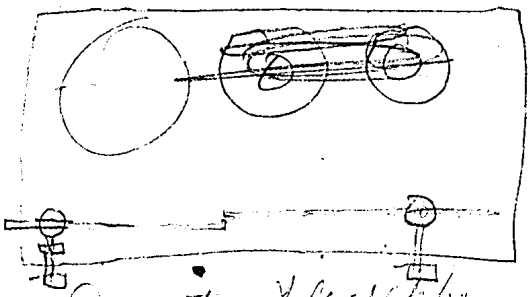
Unbound Notebooks, Volumes 8-18

Vol. 9 (pp. 1, 15, 16)

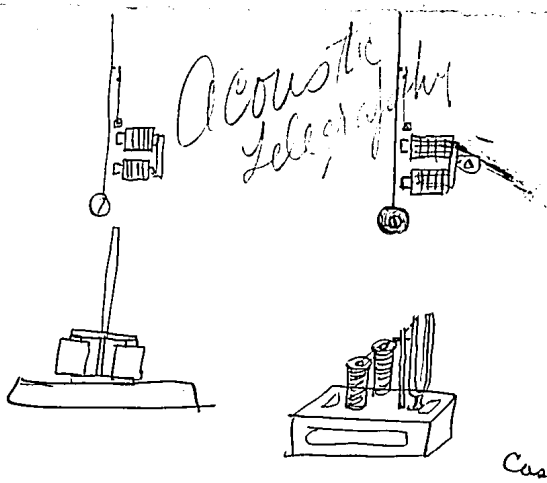

Acoustic Duplex
Aug 8 1875
Adams
New York
Line
Boston
E
E
R
R
Cond
Coil
Working Battery 16 Volts

T A Edison





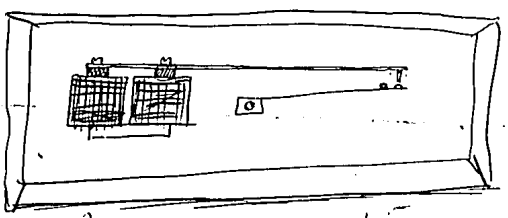
Acoustic Telegraphy
Nov 15 1875



Acoustic Telegraphy

T A Edison

Case 118 Exhibit D.

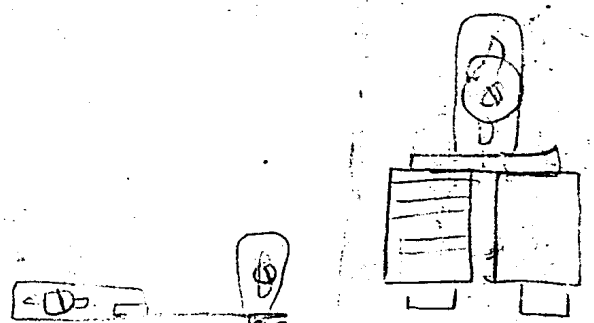


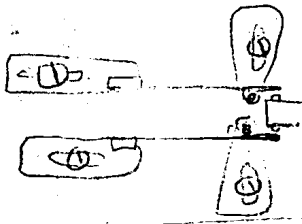
Jnov 12 1875

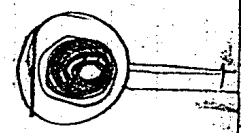
Witnesses

James Adams

5

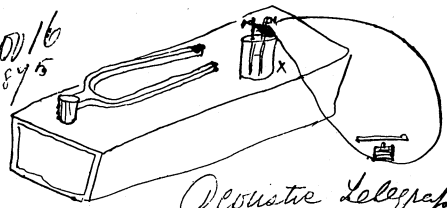






Acoustic Telegraphy
Nov 18th 1875

Alexander Graham Bell
Salem
Mass



Nov 16
1875

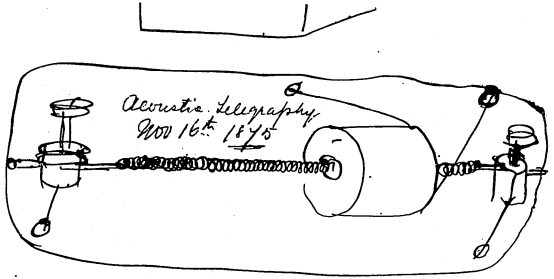
Acoustic Telegraphy

X is a quickly polarizing battery which depolarizes powerfully with the least jar, as the tuning fork responds only to vibration in unison with its swinging time. It will be set in motion & thus in its turn will set the Resonant Box vibrating depolarizing or knocking loose the hydrogen bubbles on the plates of the Cell X increasing the strength & clearing the sounds. The U shaped bar is a low resistance a

T. A. Edison

Jas Adams

John Flaneri



Iron wire delicate. Chas Batchelor
T. A. Edison
Exhibit 7-9 S. J. Jos Adams
John Ott Brown

EDISON'S EXHIBIT. 7–8.

9/9 Un Lor-s x-9 870

Pcd

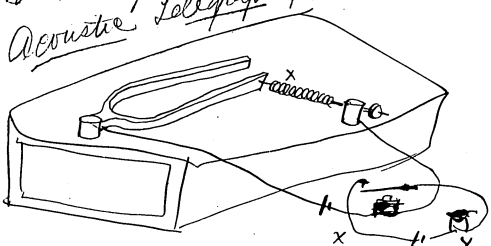
Lu Interference

EDISON'S EXHIBIT. 8–9.

EDISON'S EXHIBIT. 9-9.

Nov 16 1875

Acoustic Telegraphy



X German silver ~~wire~~ in circuit with galvanic battery + & ~~-~~ & sounder when fork is not vibrating. each turn of the spring touches the neighbor and the sounder X is closed & Y is open. when fork vibrates it sets the spiral in motion & separates each coil from the adjacent ones, thus opening X & closing Y

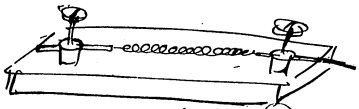
Elec'g Record

Edison Exhibit 9-9 & 9.

John Ernest

Acoustic Telegraphy

Nov 16 1875



T A Edison

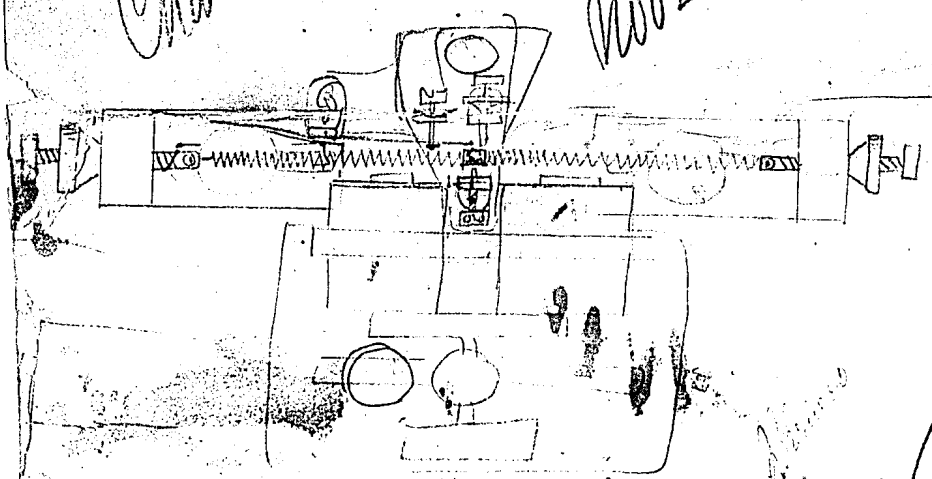
Chas Batchelor

Jas Adams

John Kruesi

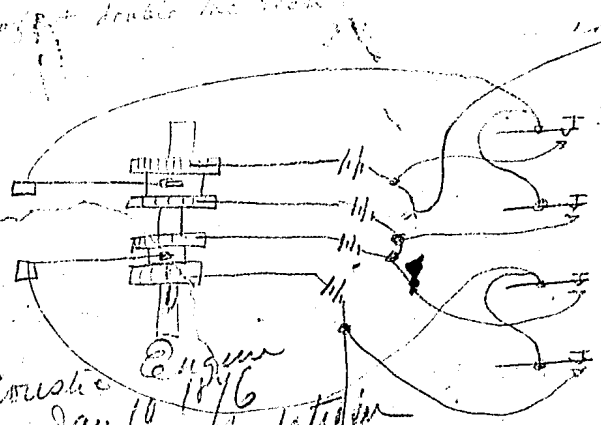
EDISON'S EXHIBIT. 10–9.

Chas Balestier Nov 2nd 1875



Fundamental	176	22	teeth	44
	220	27	"	4 out 54
	264	33	"	66
	330	41	"	2 out 82

8 Revolutions per second
480 Revolutions per minute
28 lines per double line



Edison
Phonetic
Jan 10 1876
Chas Balestier

11

Exhibit A

D Electric Force

Page 1

Fig 1

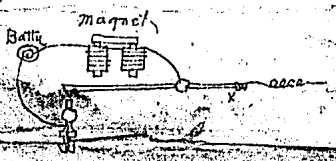


Fig 9

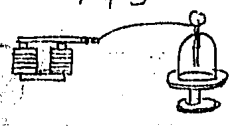


Fig 10

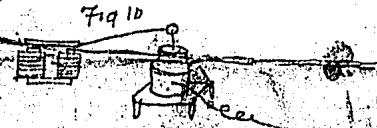


Fig 2

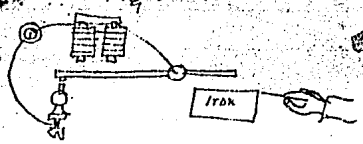


Fig 3.

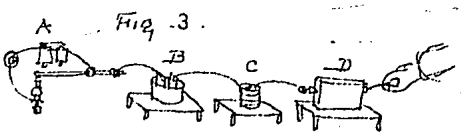
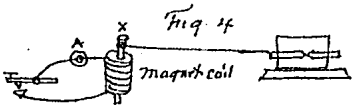


Fig 4



X copper core

Fig 5

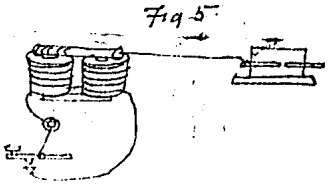
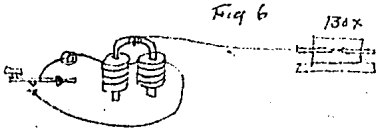


Fig 6



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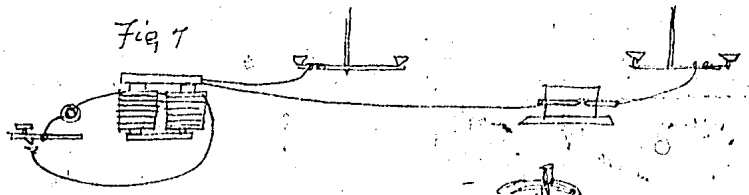


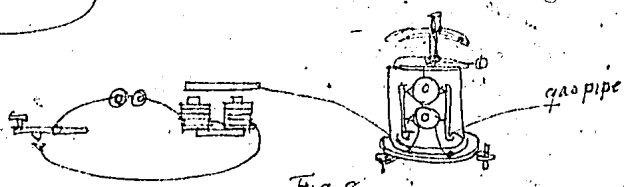
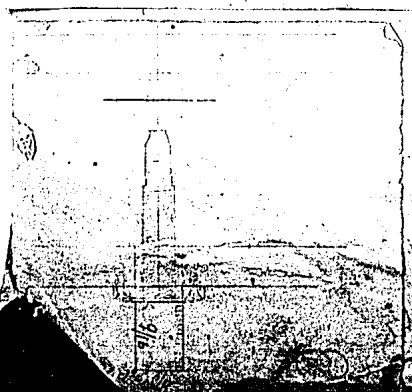
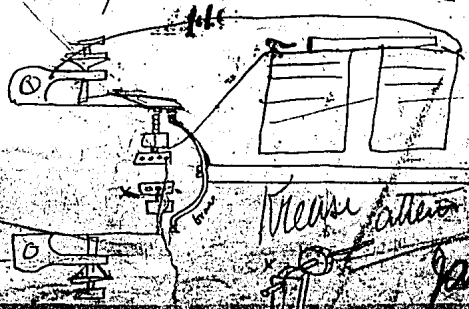


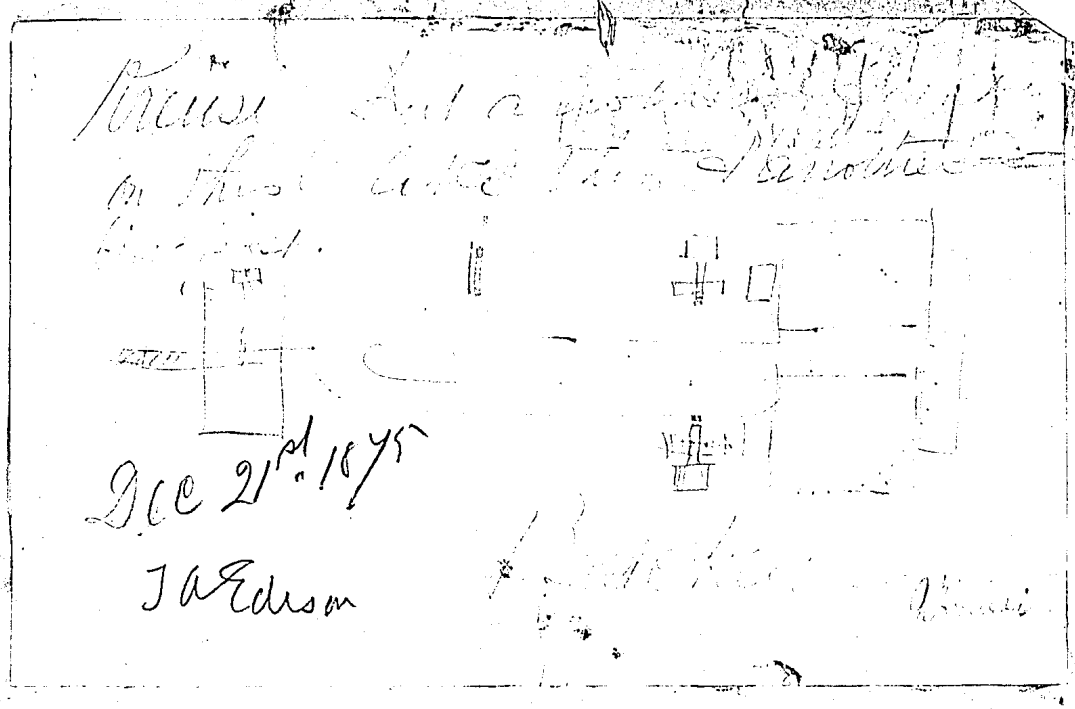
Fig 8

11



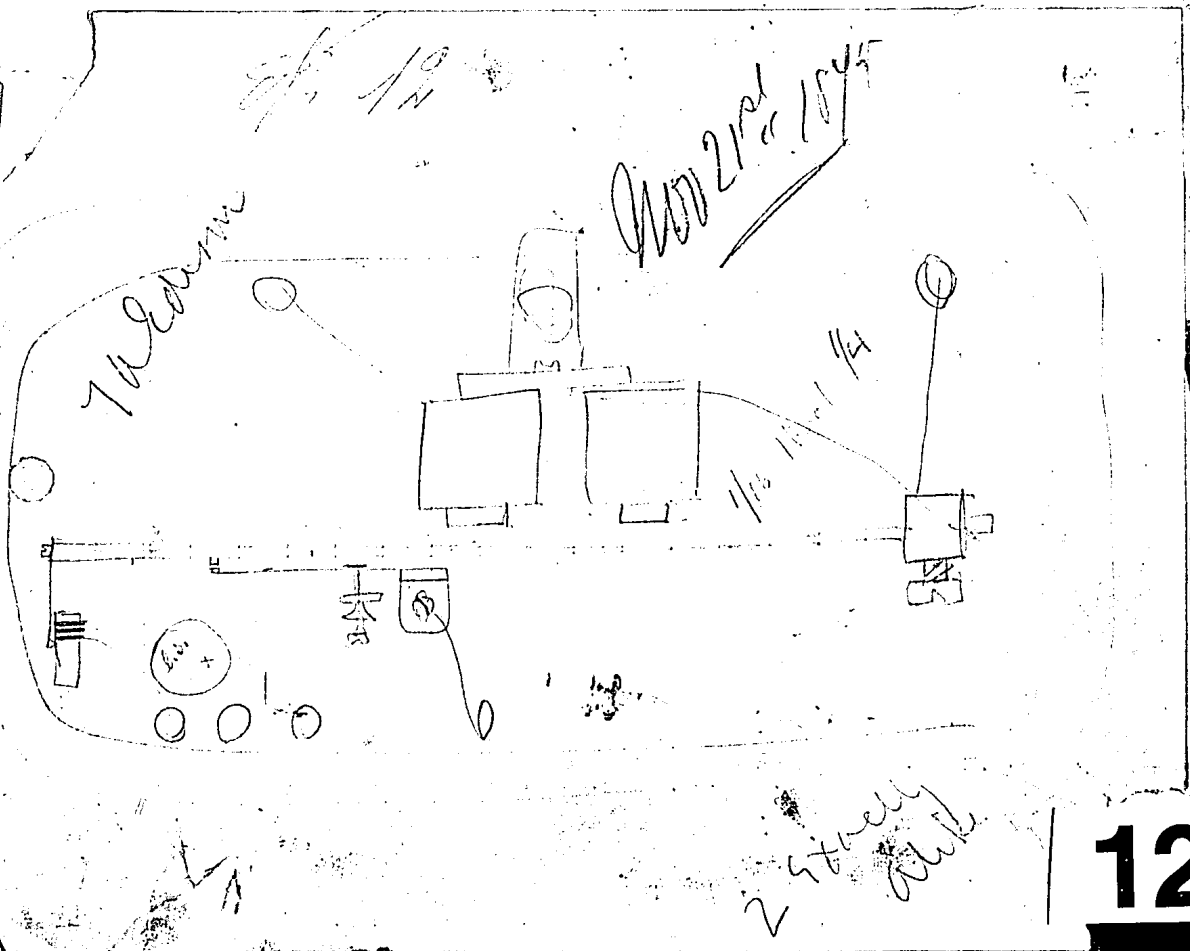
Batch have used altered for
long Tel. This way (Transmitter)





Dec 21st 1875

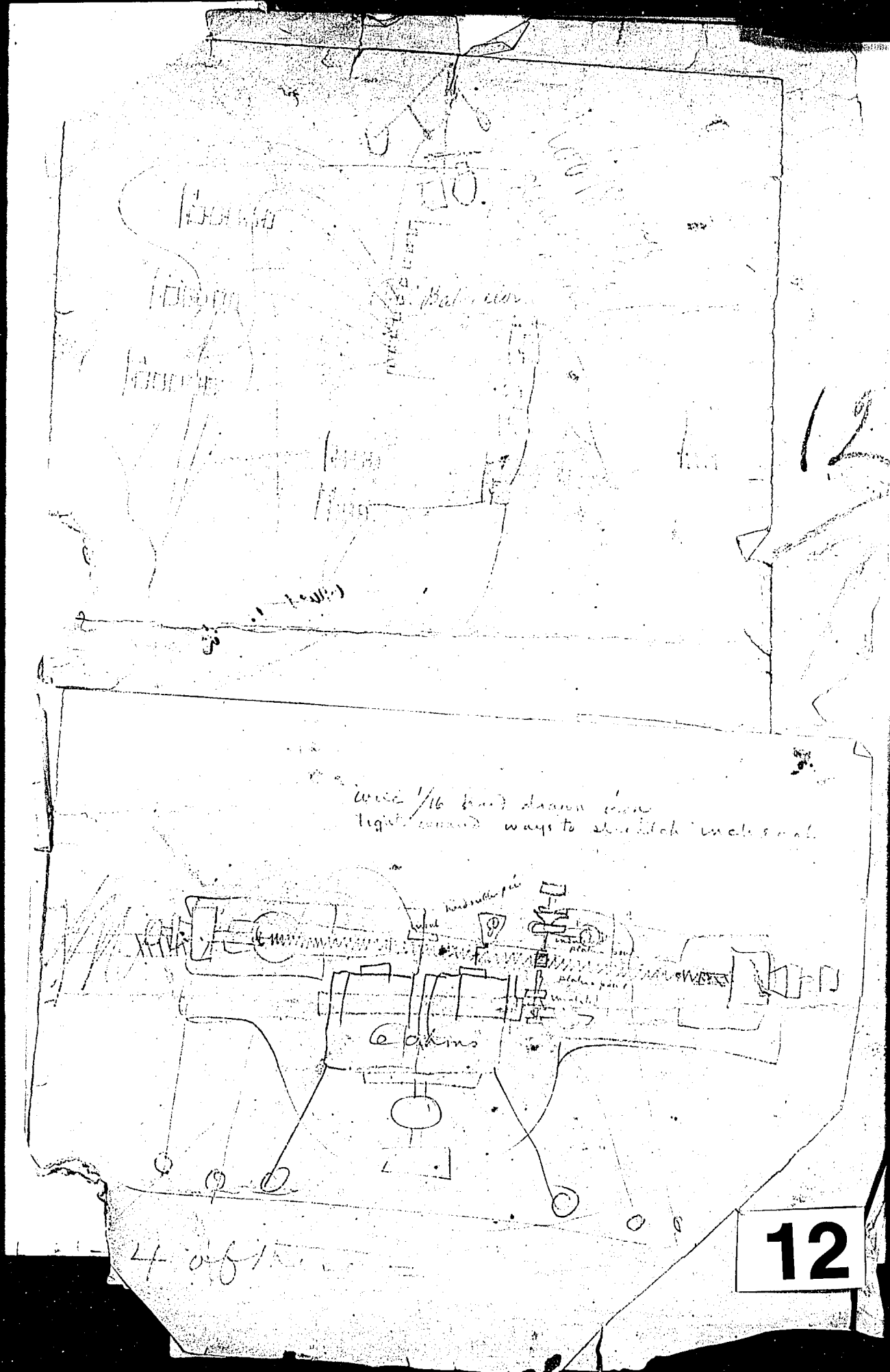
T A Edison

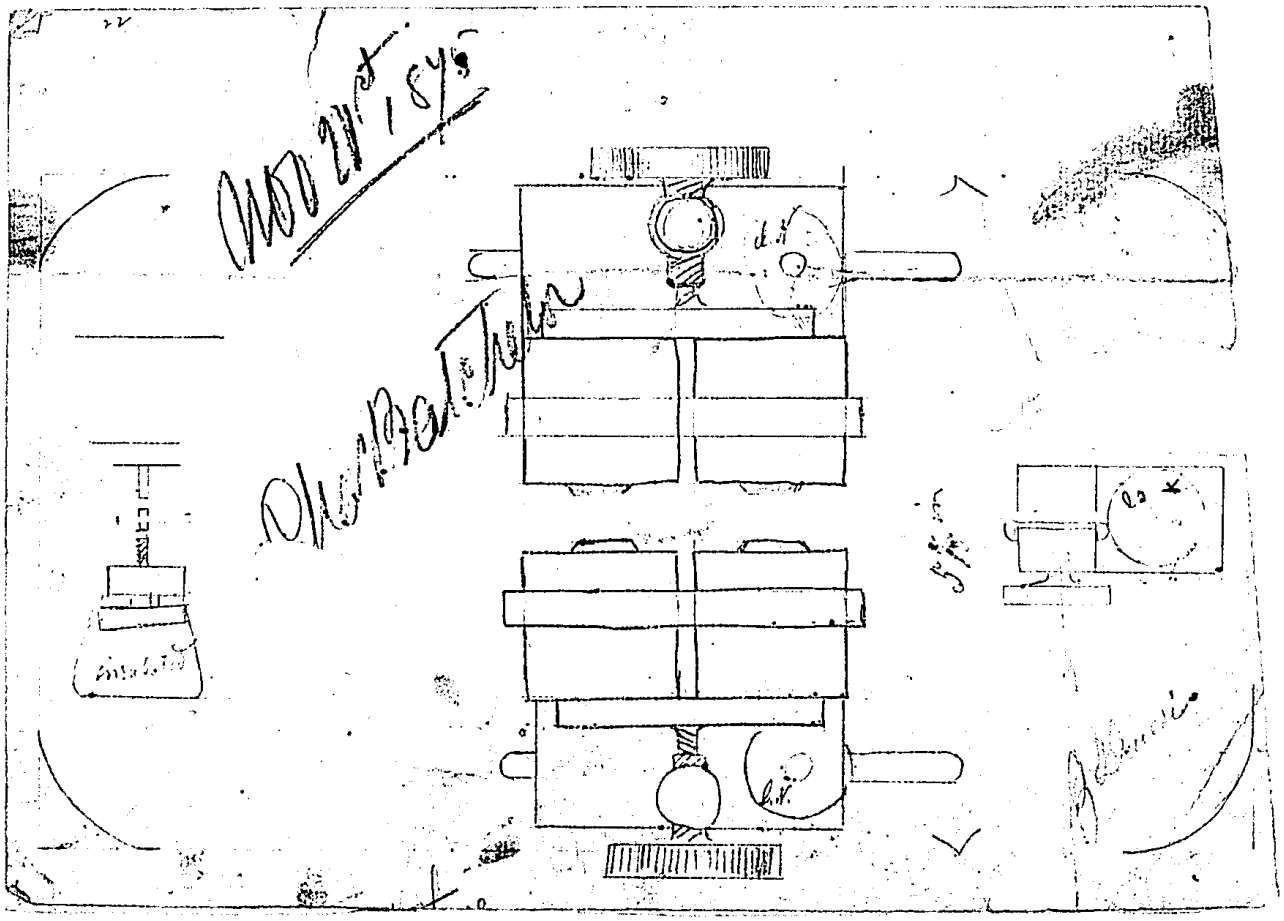


Dec 21st 1875

T A Edison

2 sheets Sheet


12



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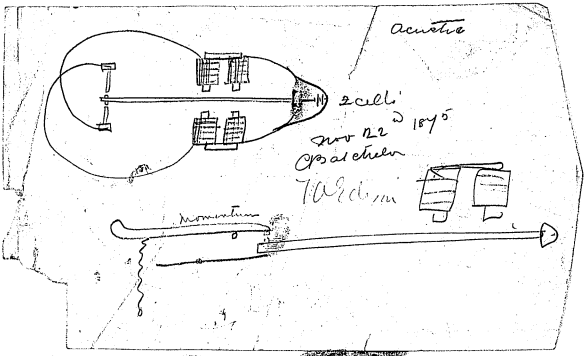
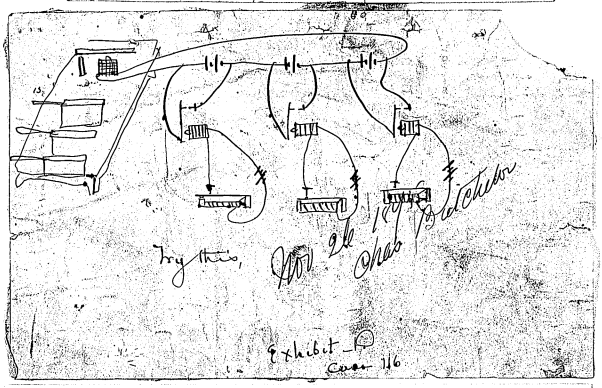
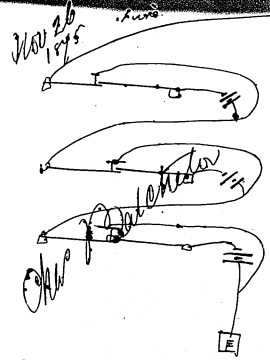


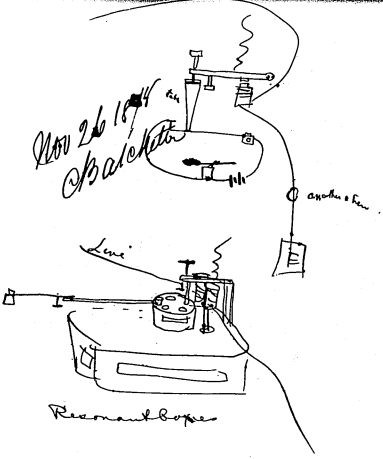


Unbound Notebooks, Volumes 8-18

Vol. 9 (pp. 1, 15, 16)

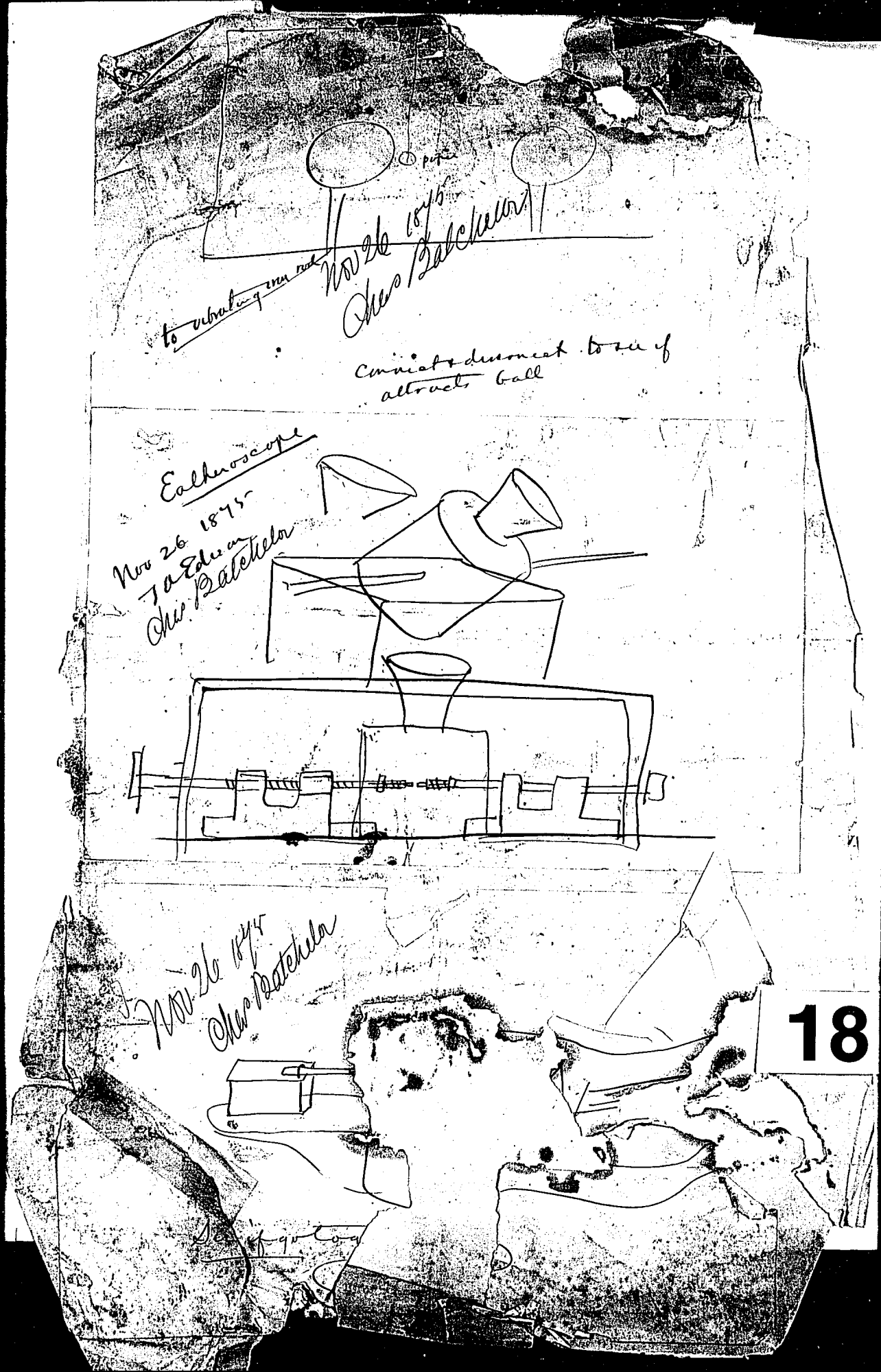


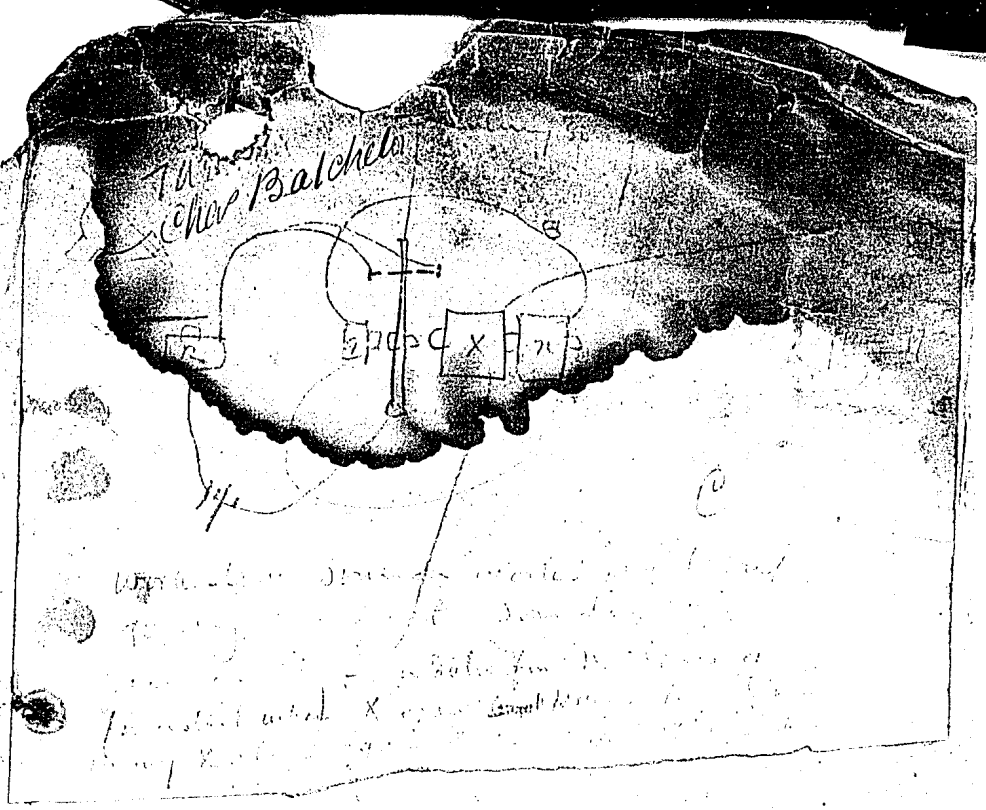
Nov 26 1878
Backster



Result of breaking the record like Grey throw record ball in the same size and preserve the continuity =

EDISON'S EXHIBIT. 17-B.

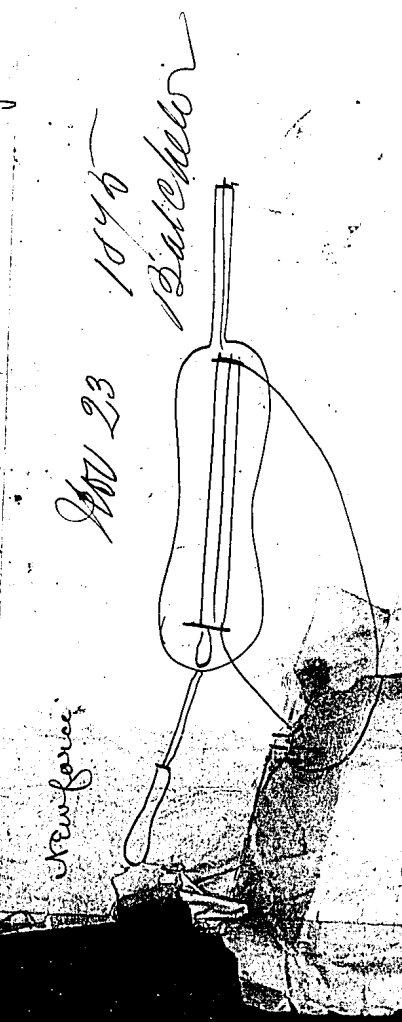

Nov 26 1845
Chas Batchelder
Nov 26 1845
Chas Batchelder



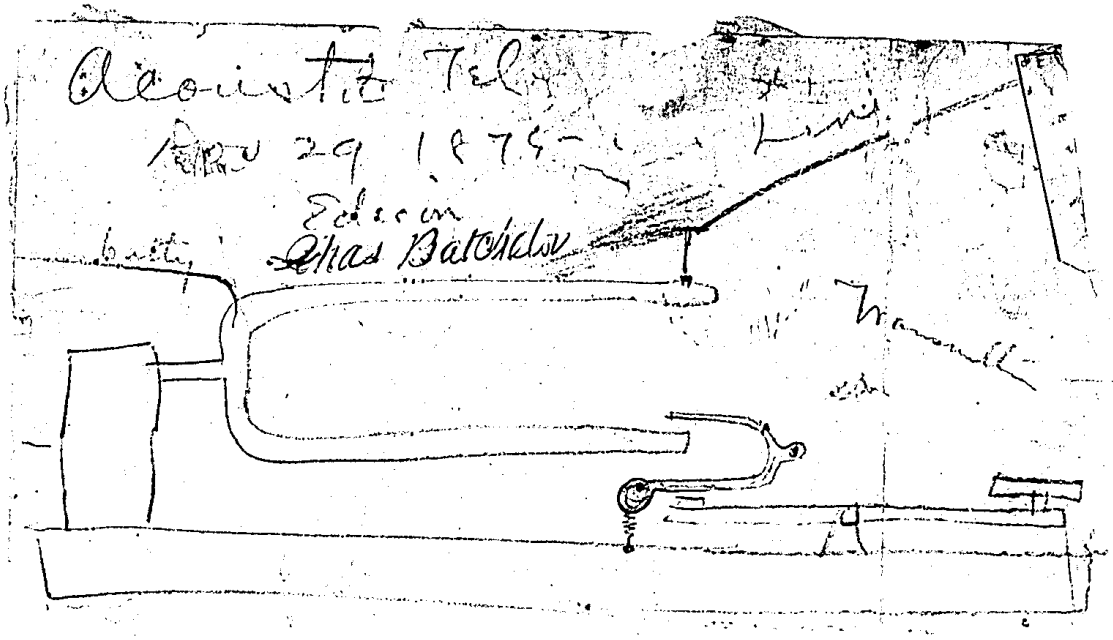
Nov 23rd 1875

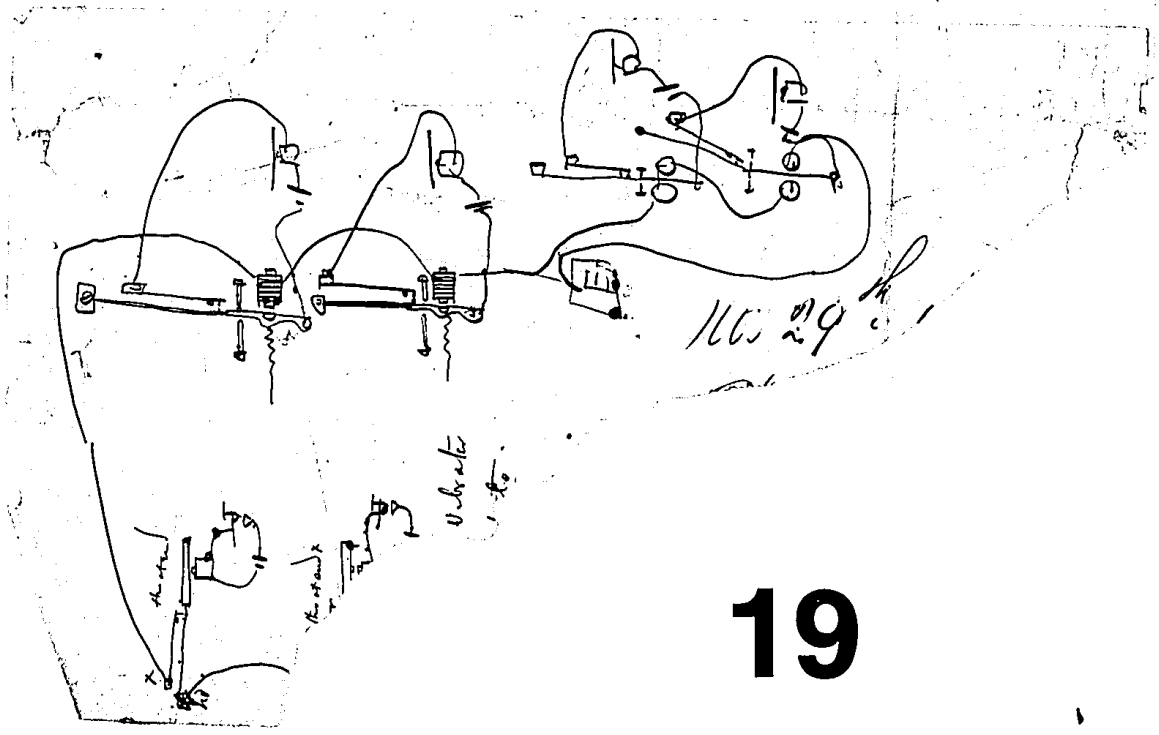
Idea just occurred to me that the paraffine paper used in Condensers should be previously turned into tri-nitro cellulose (C) Explosive paper by nitric & Sulphuric acid mixture & then immediately Electrified and mounted probably increase the Electrostatic Capacity of the Condenser Enormously

W Baldwin



18


Edison
Chas Batchelor



(acoustic telegraph)

1	1 1/4	1 3/4	2 1/4
2	2 1/2	3 1/2	4 1/2
4	5	7	9
8	10	14	18
16	20	28	36
32	40	56	72
64	80	112	144
128	160	224	288

Table of Reed Lengths

10	10
7	7
4	5
1	3

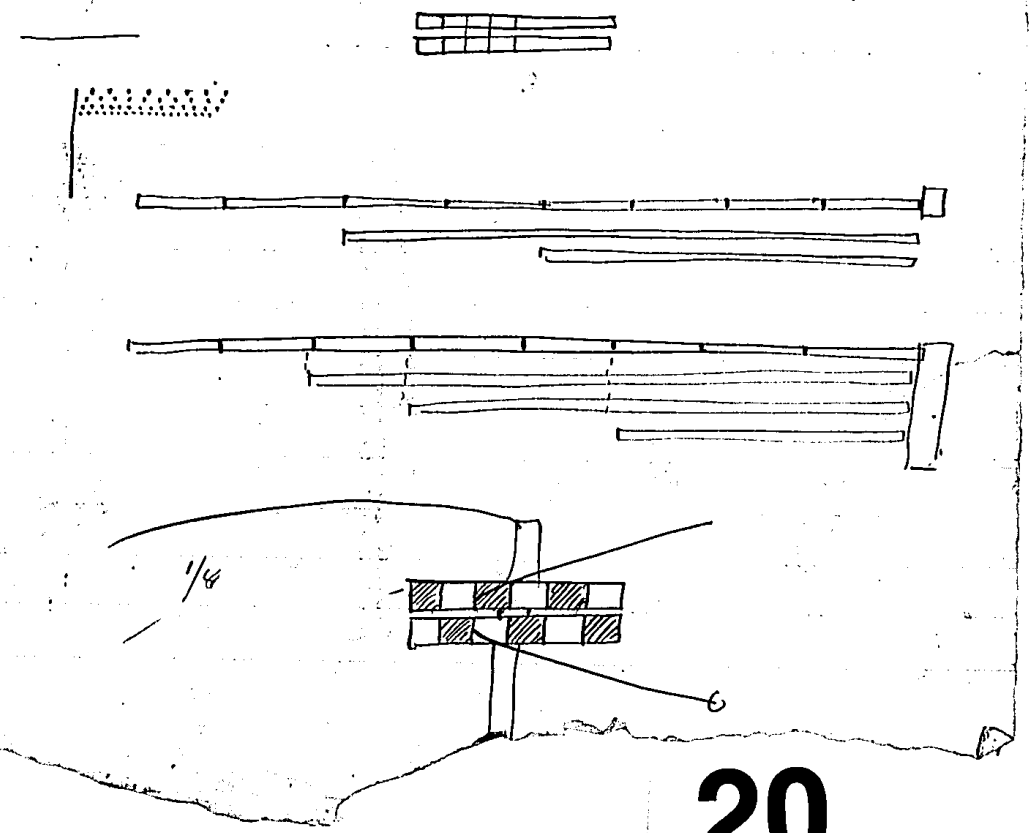
Dec 10 1876

T A Edison

8

500.

80. 11



X-E-1684

20 15 60 40 30 10 2 2,351 6

3

240 300 #780

265.

265 52 53 0 1325 0 1378 0

Twenty eight thousand two hundred thirteen and 1/2 cord

3 cord 1200 200

2300.

12

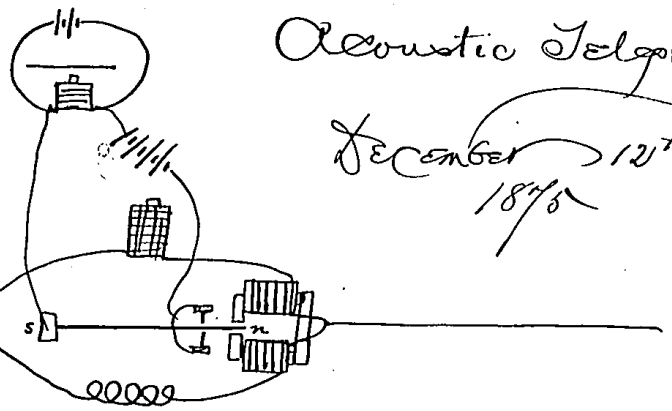
30

18000

930 10 9300

60 20 15 72 200 14400

15,000. 10 cord 27,300. 6 cord 33,600.



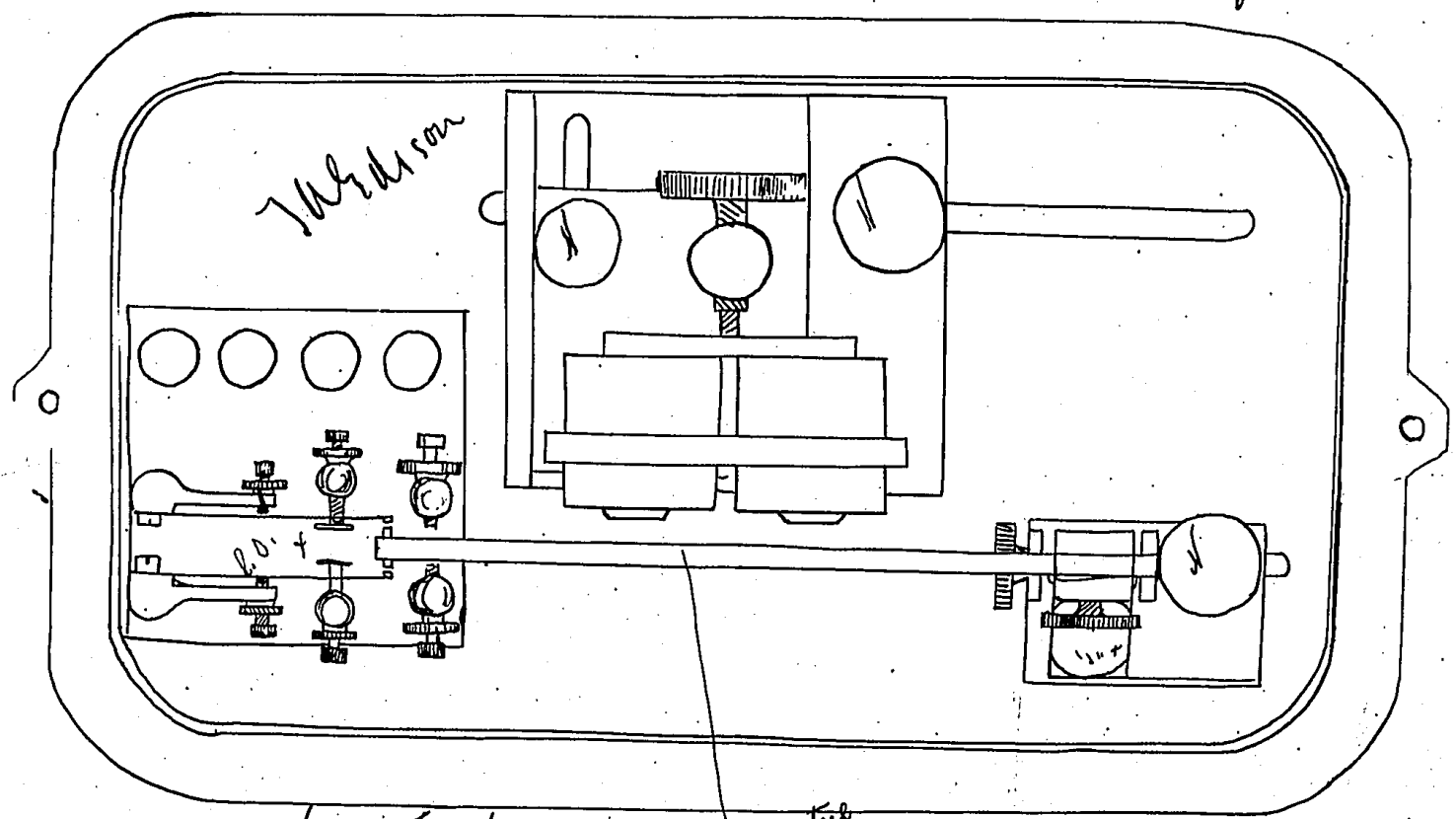
Acoustic Telegr

December 12th
1876

Working Sig reed by induction
Currents =

Acoustic Telegraphy nov 21st 1875

6 of these



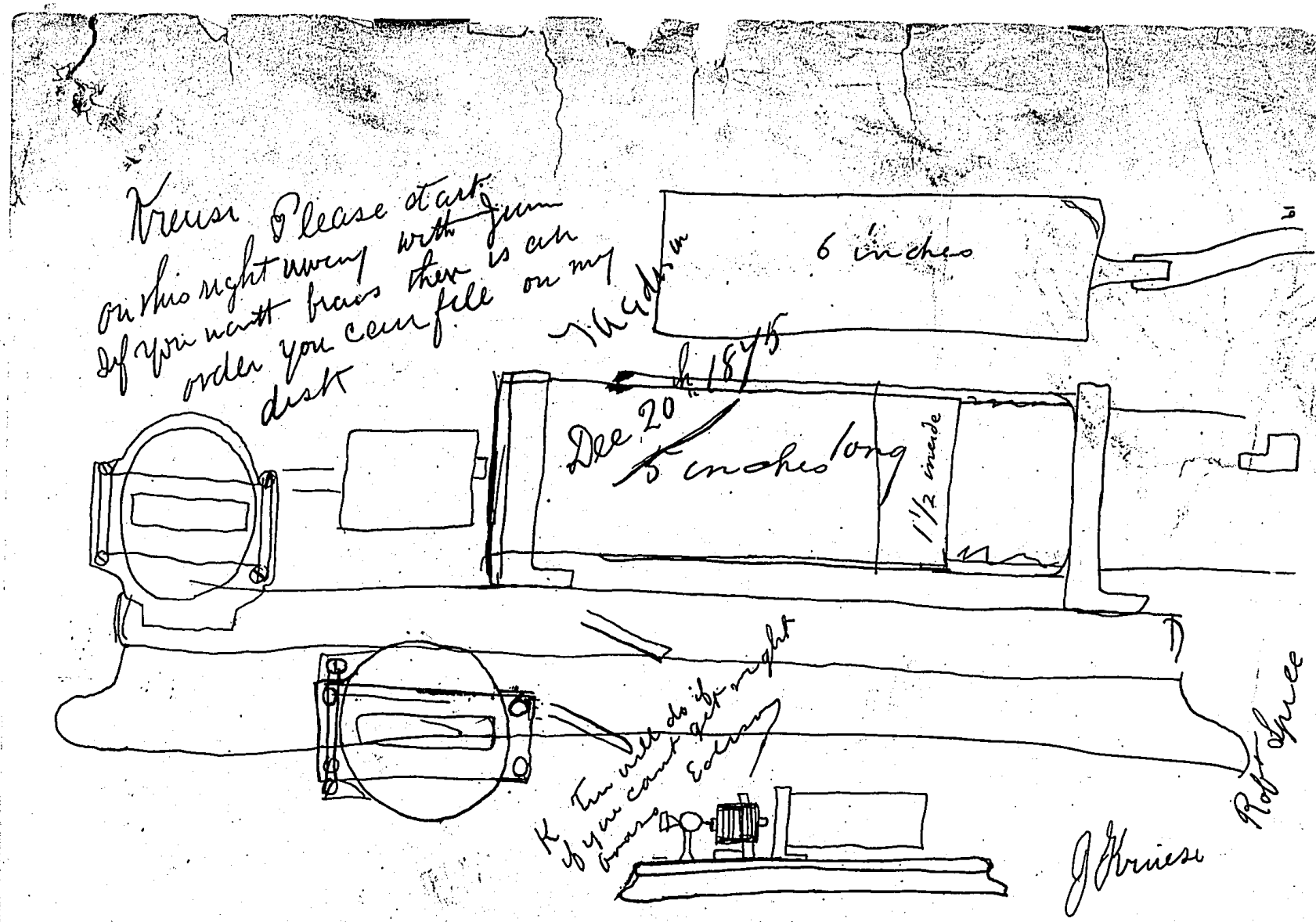
2 of these first

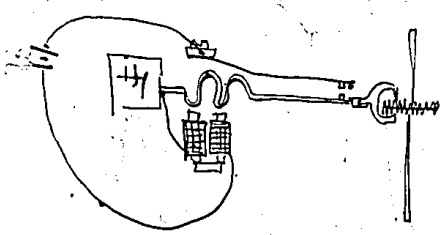
3/16 x 1/4 steel

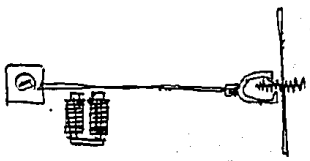
Chas Batchelor

J. Kruesi

Rob Gruen


Kruesi Please start on this right away with gun if you want brass then is an order you can file on my desk
6 inches
Dec 20
5 inches long
1 1/2 inside
Kruesi will do it right away if you can't get Edison
Robt Lee
J Kruesi





Nov 29 1875.
Chas Batchelor

Autographic Telegraph